TENNESSEE VALLEY AUTHORITY

5N 157B Lookout Place

FEB 16 1990

U.S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, D.C. 20555

Gentlemen:

In the Matter of Tennessee Valley Authority

Docket Nos. 50-259 50-260

50-296

BROWNS FERRY NUCLEAR PLANT (BFN) - MONTHLY OPERATING REPORT FOR THE MONTH OF JANUARY 1990

In accordance with the requirements of the BFN Technical Specifications (TS) Section 6.9.1.3, TVA is submitting the Monthly Operating Report for the month of January 1990.

If you have any questions, please telephone Patrick P. Carier, BFN, (205) 729-3570.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

Manager, Nuclear Licensing and Regulatory Affairs

Enclosure cc (Enclosure):

INPO Records Center
Institute of Nuclear Power Operations
1100 Circle 75 Parkway, Suite 1500
Atlanta, Georgia 30389

Regional Administration
U.S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region II
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

Mr. B. D. Liaw, Director TVA Projects Division One White Flint, North 11555 Rockville Pike Rockville, Maryland 20852 Mr. Ted Marston, Director Electric Power Research Institute P.O. Box 10412 Palo Alto, California 94304

Mr. B. A. Wilson, Assistant Director for Inspection Programs TVA Projects Division U.S. Nuclear Regulatory Commission Region II 101 Marietta Street, NW, Suite 2900 Atlanta, Georgia 30323

NRC Resident Inspector Browns Ferry Nuclear Plant Route 12, Box 637 Athens, Alabama 35609-2000 1/1

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MONTHLY OPERATING REPORT

BROWNS FERRY NUCLEAR PLANT

TENNESSEE VALLEY AUTHORITY

JANUARY 1990

DOCKET NUMBERS 50-259, 50-260, AND 50-296
LICENSE NUMBERS DPR-33, DPR-52, AND DPR-68

OPERATIONAL SUMMARY JANUARY 1990

UNIT 1

Unit remains on administrative hold to resolve various TVA and NRC concerns.

UNIT 2

Unit remains on administrative hold to resolve various TVA and NRC concerns. Modification, operation, and maintenance work continues to support restart.

UNIT 3

Unit remains on administrative hold to resolve various TVA and NRC concerns.

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO. 50-259

UNIT One

DATE 02/09/90

COMPLETED BY S. A. Ratl1ff

TELEPHONE (205) 729-2937

	AVERAGE	DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
		-2	17	-2
		-2	18	-2
		-2	19	-2
		-2	20	-2
		-1	21	-2
		-3	22	-2
		-2	23	-2
		-2	24	-2
		-1	25	-2
0 .		-2	26	-2
1 .		-2	27	-3
2 .		-2	28	-2
3 .		-2	29	-2
4		-2	30	
5		-2	31	
6		-2		

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	50-260			
Unit	Two			
DATE	02/09/90			
COMPLETED BY	S. A. Ratliff			
TELEPHONE	(205) 729-2937			

MONTH JANUARY 1990

AVERAG	E DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MMe-Net)
	-7	17	
	-7	18	-8
	-8	19	
-	-8	20	-9
-	-8	21	-6
-	-9	22	-8
***************************************	-8	23	-8
	-7	24	
************	_1	25	-8
Mark water of the Post of	-15	26	-13
	-8	27	-9
	-8	28	-5
Marie (Advisoration)	-8	29	
213	-8	30	
	-8	31	
	-7		

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NJ. 50-296

Unit Three

DATE 02/09/90

COMPLETED BY S. A. Ratliff

TELEPHONE (205) /29-2937

MONTH JANUARY 1990

AVERAGE	DAILY POWER LEVEL (MWe-Net)	DAY	AVERAGE DAILY POWER LEVEL (MWe-Net)
***************************************	-3	17	-3
*	-2	18	-11
#1x	-1	1.9	
Market Annual Control	-4	20	
	-3	21	-2
	-4	22	-3
	-3	23	
	-2	24	-3
	-2	25	
***********	-7	26	
	-3	27	4
	-3	28	
	-3	29	-3
*****	-3	30	-3
	-2	31	
Market and the second of the second	-3		

OPERATING DATA REPORT

DOCKET NO. 50-2 January 1990
COMPLETED BY S. A. Ratliff
TELEPHONE (205) 729-2937

		!Notes	! Notes		
1.	Unit Name: Rrowns Ferry Unit One		1		
2.	Reporting Period: January 1990		1		
3.	Licensed Thermal Power (MWt): 3293		1		
4.	Nameplate Rating (Gross Mule): 1152		1		
5.	Design Electrical Rating (Net MWe): 106	1			
5.	Maximum Dependable Capacity (Gross MWe):	1			
7.	Maximum Dependable Capacity (Net MWe):				
8.	1f Changes Occur in Capacity Ratings (1t N/A	ough 7) Since Last F	Report, Give Reaso		
	Power Level To Which Restricted, If Any Reasons For Restrictions, If Any:		/A		
				A STATE OF THE REAL PROPERTY AND THE PROPERTY AND THE REAL PROPERTY AND THE	
		This Month	Yr-to-Date	Cumulative	
11.	Hours in Reporting Period	This Month	Yr-to-Date	Cumulative	
	Hours in Reporting Period Number of Hours Reactor Was Critical				
12.		744	744	162272	
2.	Number of Hours Reactor Was Critical	744	744	162272 59521	
3.	Number of Hours Reactor Was Critical Reactor Reserve Shutdown Hours	744	744 0 0	162272 59521 69%7	
2. 3. 4. 5.	Number of Hours Reactor Was Critical Reactor Reserve Shutdown Hours Hours Generator On-Line Unit Reserve Shutdown Hours Gross Thermal Energy Generated (MWH)	744 0 0 0	744 0 0	162272 59521 6997 58261	
2. 3. 4. 5. 6. 7.	Number of Hours Reactor Was Critical Reactor Reserve Shutdown Hours Hours Generator On-Line Unit Reserve Shutdown Hours Gross Thermal Energy Generated (MWH) Gross Electrical Energy Generated (MWH)	744 0 0 0 0 0 0	744 0 0 0 0	162272 59521 69°7 58267	
2. 3. 4. 5. 6. 7. 8.	Number of Hours Reactor Was Critical Reactor Reserve Shutdown Hours Hours Generator On-Line Unit Reserve Shutdown Hours Gross Thermal Energy Generated (MWH) Gross Electrical Energy Generated (MWH) Net Electrical Energy Generated (MWH)	744 0 0 0 0 0	744 0 0 0 0 0	162272 59521 69*7 58267 0 168066787	
2. 3. 4. 5. 6. 7. 8. 9.	Number of Hours Reactor Was Critical Reactor Reserve Shutdown Hours Hours Generator On-Line Unit Reserve Shutdown Hours Gross Thermal Energy Generated (MWH) Gross Electrical Energy Generated (MWH) Net Electrical Energy Generated (MWH) Unit Service Factor	744 0 0 0 0 0 0	744 0 0 0 0 0 0	162272 59521 6997 58267 0 168066787 55398130	
2. 3. 4. 5. 6. 7. 8. 9.	Number of Hours Reactor Was Critical Reactor Reserve Shutdown Hours Hours Generator On-Line Unit Reserve Shutdown Hours Gross Thermal Energy Generated (MWH) Gross Electrical Energy Generated (MWH) Net Electrical Energy Generated (MWH) Unit Service Factor Unit Availability Factor	744 0 0 0 0 0 0 0 0 -1393	744 0 0 0 0 0 0 0 -1393	162272 59521 69°7 58261 0 168066787 55398130 53454601	
2. 3. 4. 5. 6. 7. 8. 9.	Number of Hours Reactor Was Critical Reactor Reserve Shutdown Hours Hours Generator On-Line Unit Reserve Shutdown Hours Gross Thermal Energy Generated (MWH) Gross Electrical Energy Generated (MWH) Net Electrical Energy Generated (MWH) Unit Service Factor Unit Availability Factor Unit Capacity Factor (Using MDC Net)	744 0 0 0 0 0 0 0 -1393	744 0 0 0 0 0 0 0 -1393	162272 59521 69°7 58261 0 168066787 55398130 53454601 35.9	
12. 13. 14. 15. 16. 17. 18. 20.	Number of Hours Reactor Was Critical Reactor Reserve Shutdown Hours Hours Generator On-Line Unit Reserve Shutdown Hours Gross Thermal Energy Generated (MWH) Gross Electrical Energy Generated (MWH) Net Electrical Energy Generated (MWH) Unit Service Factor Unit Availability Factor Unit Capacity Factor (Using MDC Net) Unit Capacity Factor (Using DER Net)	744 0 0 0 0 0 0 0 -1393 0	744 0 0 0 0 0 0 -1393 0	162272 59521 6997 58261 0 168066787 55398130 53454G01 35.9	
12. 13. 14. 15. 16. 17. 18. 19. 21. 22.	Number of Hours Reactor Was Critical Reactor Reserve Shutdown Hours Hours Generator On-Line Unit Reserve Shutdown Hours Gross Thermal Energy Generated (MWH) Gross Electrical Energy Generated (MWH) Net Electrical Energy Generated (MWH) Unit Service Factor Unit Availability Factor Unit Capacity Factor (Using MDC Net)	744 0 0 0 0 0 0 -1393 0 0 0 0	744 0 0 0 0 0 0 -1393 0 0 0 0	162272 59521 6997 58267 0 168066787 55398130 53454601 35.9 35.9	

OPERATING DATA REPORT

DOCKET NO. 50-260

DATE January 1990

COMPLETED BY S. A. Ratliff

TELEPHONE (205) 729-2937

	OPERATING STATUS					
		!Notes				
1. U.it Name: Browns Ferry Unit Two		1				
2. Reporting Period: January 1990		1				
1. Licensed Thermal Power (MWt): 3293		1				
1. Nameplate Rating (Gross MWe): 1152		1				
5. Design Electrical Rating (Net MWe): 106		!				
. Maximum Dependable Capacity (Gross Mule):		1				
. Maximum Dependable Capacity (Net MWe):	1					
3. If Changes Occur in Capacity Ratings (It N/A	ems Number 3 Thro	ough 7) Since Last I	Report, Give Reas			
O. Reasons For Restrictions, 1f Any		<u>/^</u>				
	This Month	Yr-to-Date	Cumulative			
1. Hours in Reporting Period	744	744	157159			
2. Number of Hours Reactor Was Critical	0	0	55860			
3. Reactor Reserve Shutdown Hours	0	C	14200			
4. Hours Generator On-Line	0	0	54338			
5. Unit Reserve Shutdown Hours	0	0	0			
D. Dille Reserve Silutocan instra	0	0	153245167			
			50771798			
6. Gross Thermal Energy Generated (MWH) 7. Gross Electrical Energy Generated (MWH)	0	0	301111790			
6. Gross Thermal Energy Generated (MWH) 7. Gross Electrical Energy Generated (MWH)		- 5775	49008076			
6. Gross Thermal Energy Generated (MWH) 7. Gross Electrical Energy Generated (MWH) 8. Net Electrical Energy Generated (MWH)	0	A contract to the same of the	49008076			
6. Gross Thermal Energy Generated (MWH) 7. Gross Electrical Energy Generated (MWH) 8. Net Electrical Energy Generated (MWH) 9. Unit Service Factor 0. Unit Availability Factor	0 -5775	- 5775	49008076 34.6			
6. Gross Thermal Energy Generated (MWH) 7. Gross Electrical Energy Generated (MWH) 8. Net Electrical Energy Generated (MWH) 9. Unit Service Factor 0. Unit Availability Factor 1. Unit Capacity Factor (Using MDC Net)	-5775 0	- 5775 0	THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN 1			
6. Gross Thermal Energy Generated (MWH) 7. Gross Electrical Energy Generated (MWH) 8. Net Electrical Energy Generated (MWH) 9. Unit Service Factor 0. Unit Availability Factor 1. Unit Capacity Factor (Using MDC Net)	0 -5775 0 0	- 5775 0 0	49008076 34.6 34.6			
6. Gross Thermal Energy Generated (MWH) 7. Gross Electrical Energy Generated (MWH) 8. Net Electrical Energy Generated (MWH) 9. Unit Service Factor 0. Unit Availability Factor 1. Unit Capacity Factor (Using MDC Net) 2. Unit Capacity Factor (Using DER Net) 3. Unit Forced Outage Rate	0 -5775 0 0	- 5775 0 0	49008076 34.6 34.6 29.3			

OPERATING DATA REPORT

DOCKET NO. 50-296

DATE January 1990

COMPLETED BY S. A. Ratliff

TELEPHONE (205) 729-2937

			!Notes	
1. Unit N	ame: Browns Ferry Unit Three		1	
	ing Period: January 1990			
	ed Thermal Power (MWt): 3293			
. Namepi	ate Rating (Gross Ade): 1152		!	
. Design	Electrical Rating (Net Mwe): 1065		1	
. Maximu	m Dependable Capacity (Gross MWe):			
	m Dependable Capacity (Net Mwe):	1		
. If Cha	nges Occur in Capacity Ratings (Ite	ough 7) Since Last I	Report, Give Reaso	
	N/A			
	EERICA ERICENDA INDICENSIA AURIOLEA			
Power	Level To Which Restricted, 1f Any	(Net Mue): N/	/A	
	s For Restrictions, If Any:			
o. Keason	s for heat rections, it my.			
		This Month	Yr-to-Date	Cumulative
I. Hours	in Reporting Period	744	744	139584
	in Reporting Period of Hours Reactor Was Critical	744	744 0	45306
2. Number		THE STREET STATE OF THE PARTY O	***************************************	A THE RESIDENCE AND ASSOCIATED WITH A SECURIOR OF THE PERSONS AND ASSOCIATION OF THE PERSONS ASSOCIATI
2. Number 3. Reacto	of Hours Reactor Was Critical	0	0	45306
2. Number 3. Reacto 4. Hours	of Hours Reactor Was Critical or Reserve Shutdown Hovrs	0	0	45306 5150
2. Number 3. Reacto 4. Hours 5. Unit R	of Hours Reactor Was Critical or Reserve Shutdown Hours Generator On Line	0 0	0 0	45306 5150 44195
2. Number 3. Reacto 4. Hours 5. Unit R 6. Gross	of Hours Reactor Was Critical or Reserve Shutdown Hours Generator On Line Weserve Shutdown Hours	0 0 0	0 0 0 0	45306 5150 44195 0
2. Number 3. Reacto 4. Hours 5. Unit R 6. Gross 7. Gross	of Hours Reactor Was Critical or Reserve Shutdown Hours Generator On line deserve Shutdown Hours Thormal Energy Generated (MWH)	0 0 0 0	0 0 0 0	45306 5150 44195 0 131868267
2. Number 3. Reacto 4. Hours 5. Unit R 6. Gross 7. Gross 8. Net El	of Hours Reactor Was Critical or Reserve Shutdown Hours Generator On Line deserve Shutdown Hours Thermal Energy Generated (MWH) Electrical Energy Generated (MWH)	0 0 0 0 0	0 0 0 0 0	45306 5150 44195 0 131868267 43473760
2. Number 3. Reacto 4. Hours 5. Unit R 6. Gross 7. Gross 8. Net El 9. Unit S	of Hours Reactor Was Critical or Reserve Shutdown Hours Generator On Line deserve Shutdown Hours Thermal Energy Generated (MWH) Electrical Energy Generated (MWH) ectrical Energy Generated (MWH)	0 0 0 0 0 0 0 -2367	0 0 0 0 0 0 0 -2367	45306 5150 44195 0 131868267 43473760 41875823
2. Number 3. Reacto 4. Hours 5. Unit R 6. Gross 7. Gross 8. Net El 9. Unit S	of Hours Reactor Was Critical or Reserve Shutdown Hours Generator On Line teserve Shutdown Hours Thermal Energy Generated (MWH) Electrical Energy Generated (MWH) ectrical Energy Generated (MWH) tervice Factor	0 0 0 0 0 0 0 -2367	0 0 0 0 0 0 -2367	45306 5150 44195 0 131868267 43473760 41875823 31.7
2. Number 3. Reacto 4. Hours 5. Unit R 6. Gross 7. Gross 8. Net El 9. Unit S 0. Unit A	of Hours Reactor Was Critical or Reserve Shutdown Hours Generator On Line deserve Shutdown Hours Thermal Energy Generated (MWH) Electrical Energy Generated (MWH) ectrical Energy Generated (MWH) dervice factor devailability Factor	0 0 0 0 0 0 -2367 0	0 0 0 0 0 0 -2367 0	45306 5150 44195 0 131868267 43473760 41875823 31.7
2. Number 3. Reacto 4. Hours 5. Unit R 6. Gross 7. Gross 8. Net El 19. Unit S 20. Unit A 21. Unit C	of Hours Reactor Was Critical or Reserve Shutdown Hours Generator On Line Weserve Shutdown Hours Thermal Energy Generated (MWH) Electrical Energy Generated (MWH) ectrical Energy Generated (MWH) ervice Factor wailability Factor Gapacity Factor (Using MDC Net)	0 0 0 0 0 0 -2367 0 0	0 0 0 0 0 0 -2367 0 0	45306 5150 44195 0 131868267 43473760 41875823 31.7 31.7 28.2
2. Number 3. Reacto 4. Hours 5. Unit R 6. Gross 7. Gross 8. Net El 9. Unit S 1. Unit C 2. Unit C 3. Unit F	of Hours Reactor Was Critical or Reserve Shutdown Hours Generator On Line deserve Shutdown Hours Thermal Energy Generated (MWH) Electrical Energy Generated (MWH) ectrical Energy Generated (MWH) dervice Factor dvailability Factor dvailability Factor dapacity Factor (Using MDC Net) dapacity Factor (Using DER Net)	0 0 0 0 0 0 0 -2367 0 0 0	0 0 0 0 0 0 0 -2367 0 0 0	45306 5150 44195 0 131868267 43473760 41875823 31.7 31.7 28.2 28.2

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: January 1990

DOCKET NO: 50-259 UNIT NAME: One
DATE: U2/2/90
COMPLETED BY:S. A. Ratliff

TELEPHONE: (205) 729 2937

No.	Date	Type'	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report No.	System Code ⁴	Component Code ⁵	Cause and Corrective Action to Prevent Recurrence
315	06/01/85	r	745	F	4				Administrative hold to resolve various TVA and NWC concerns.

'F: Forced S: Scheduled 2 Reason: A-Equipment Failure (Explain) B-Maintenance or Test C-Refueling D-Regulatory Restriction E-Operator Training and License Examination F-Administrative G-Operational Error (Explain) H-Other (Explain)

3Method: 1-Manual 2-Manual Scram 3-Automatic Scram 4-Continuation of Existing Outage 5-Reduction 9-Other

*Exhibit G-Instructions for Preparation of Data Entry sheets for Licensee Event Report (LER) File (NUREG-061)

*Exhibit I-Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: January 1990

DUCKET NO: 50-260 UNIT NAME: Two DATE: 02/2/90 COMPLETED BY: S. A. Ratliff TELEPHONE: (205) 729-2937

No.	Date	Type'	Durati: (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report No.	System Code*	Component Code ⁵	Cause and Corrective Action to Prevent Recurrence
305	09/15/84	F	745	F	4				Administrative hold to resolve various TVA and NRC concerns.

'F: Forced S: Scheduled 2 Reason:

A-Equipment Failure (Explain)
B-Maintenance or Test

C-Refueling

D-Regulatory Restriction

E-Operator Training and License Examination

F-Administrative

G-Operational Error (Explain)

H-Other (Explain)

"Method:

1-Manual 2-Manual Scram

3-Automatic Scram

4-Continuation of Existing Outage

5-Reduction

9-Other

*Exhibit G-Instructions for Preparation of Data Entry sheets for Licensee Event Report (LER) File (NUREG-061)

SExhibit I-Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS

REPORT MONTH: January 1990

DOCKET NO: 50-296 UNIT NAME: Three COMPLETED BY: S. A. Ratliff TELEPHONE: (205) 729-2937

No.	Date	Type'	Duration (Hours)	Reason ²	Method of Shutting Down Reactor ³	Licensee Event Report No.	System Code ⁴	Component Code ⁵	ause and Corrective Action to Prevent Recurrence
157	03/03/85	F	745	r	4				Administrative hold to resolve various TVA and NRC concerns.

'F: Forced S: Scheduled 2 Reason: A-Equipment failure (Explain, B-Maintenance of Test C-Refueling D-Regulatory Restriction

E-Operator Training and License Examination F-Administrative

G-Operational Error (Explain)

H-Other (Explain)

3Method:

1-Manual 2-Manual Scram 3-Automatic Scram 4-Continuation of Existing Outage

5-Reduction

9-Other

*Exhibit G-Instructions for Preparation of Data Entry sheets for Licensee Event Report (LER) File (NUREG-061)

SExhibit I-Same Source